

Monograph number: 10276

Title: Everolimus

CAS Registry Number: 159351-69-6

CAS Name: 42-O-(2-Hydroxyethyl)rapamycin

Additional Names: 40-O-(2-hydroxyethyl)rapamycin

Manufacturers' Codes: RAD-001 ; SDZ RAD

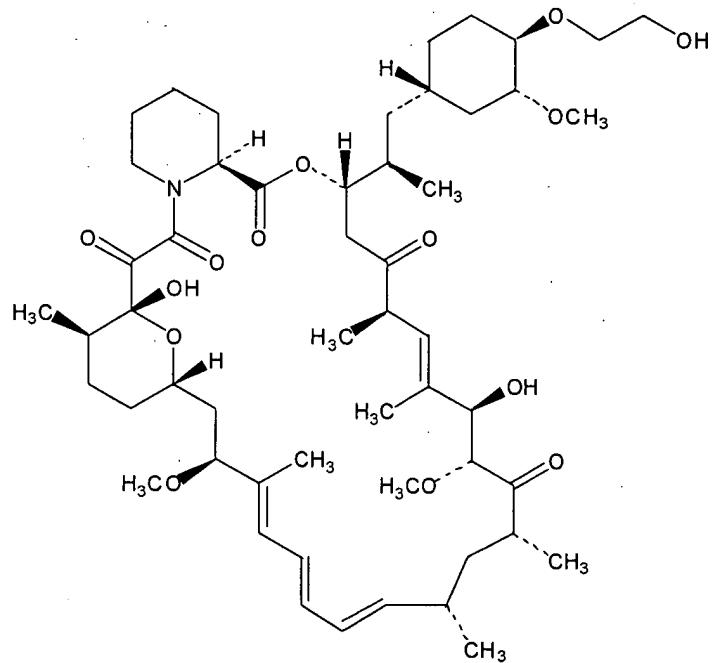
Trademarks: Certican (Novartis)

Molecular Formula: C₅₃H₈₃NO₁₄

Molecular Weight: 958.22

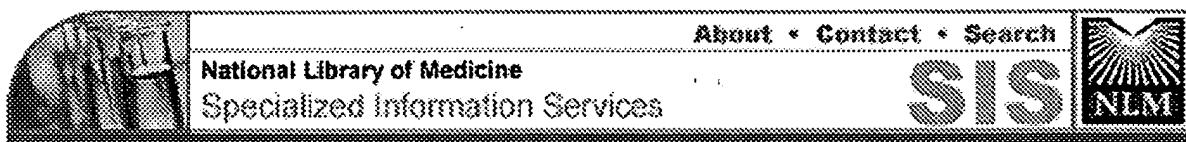
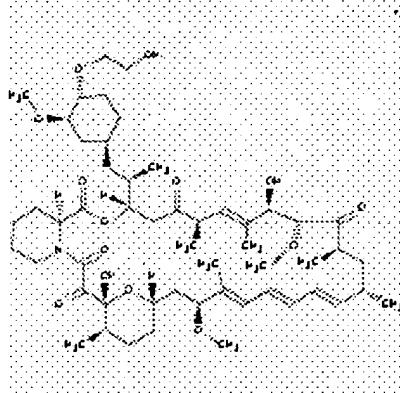
Percent Composition: C 66.43%, H 8.73%, N 1.46%, O 23.38%

Literature References: Macrolide immunosuppressant; derivative of rapamycin, *q.v.* Inhibits cytokine-mediated lymphocyte proliferation. Prepn: S. Cottens, R. Sedrani, **WO** 9409010; *eidem*, US 5665772 (1994, 1997 both to Sandoz). Pharmacology: W. Schuler *et al.*, *Transplantation* **64**, 36 (1997). LC/MS determin in blood: N. Brignol *et al.*, *Rapid Commun. Mass Spectrom.* **15**, 898 (2001). Clinical pharmacokinetics in combination with cyclosporine: J. M. Kovarik *et al.*, *Clin. Pharmacol. Ther.* **69**, 48 (2001). Clinical study in prevention of cardiac-allograft vasculopathy: H. J. Eisen *et al.*, *N. Engl. J. Med.* **349**, 847 (2003). Review: F. J. Dumont *et al.*, *Curr. Opin. Invest. Drugs* **2**, 1220-1234 (2001); B. Nashan, *Ther. Drug Monit.* **24**, 53-58 (2002).



Therapeutic Category: Immunosuppressant.

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**ChemIDplus Advanced**[Tox. & Env. Health](#) [TOXNET](#) [Return to Results Page](#)**Everolimus [USAN]****RN: 159351-69-6****MW: 958.232****Names and Synonyms****Name of Substance**[Everolimus \[USAN\]](#)**Synonyms**

- [42-O-\(2-Hydroxyethyl\)rapamycin](#)
- [Certican](#)
- [Everolimus](#)
- [RAD](#)
- [RAD 001](#)
- [SDZ-RAD](#)

Systematic Name

[\(1R,9S,12S,15R,16E,18R,19R,21R,23S,24E,26E,28E,30S,32S,35R\)-1,18-Dihydroxy-12-\(\(1R\)-2-\(\(1S,3R,4R\)-4-\(2-hydroxyethoxy\)-3-methoxycyclohexyl\)-1-methylethyl\)-19,30-dimethoxy-15,17,21,23,29,35-hexamethyl-11,36-dioxa-4-azatricyclo\(30.3.1.04,9\)hexatriaconta-16,24,26,28-tetraene-2,3,10,14,20-pentaone](#)

[Rapamycin, 42-O-\(2-hydroxyethyl\)-](#)

Registry Numbers**CAS Registry Number**[159351-69-6](#)**System Generated Number**[159351696](#)**Classification Codes****Classification Code**[Immunosuppressant](#)**Formulas****Molecular Formula**[C53-H83-N-O14](#)

Locators	File Locator
AIDSLINE	 AIDS citations from MEDLINE
CANCERLIT	 CANCER LITerature from Medline
MEDLINE	 MEDical literature onLINE
TOXLINE Core	 NLM TOXLINE Core from MEDLINE
TOXLINE Special	 NLM TOXLINE Special on TOXNET

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Customer Service: tehip@teh.nlm.nih.gov.
Last modified on September 8, 2004.

Monograph number: 07511

Title: Pimecrolimus

CAS Registry Number: 137071-32-0

CAS Name: (3S,4R,5S,8R,9E,12S,14S,15R,16S,18R,19R,26aS)-3-[(1E)-2-[(1R,3R,4S)-4-Chloro-3-methoxycyclohexyl]-1-methylethylene]-8-ethyl-5,6,8,11,12,13,14,15,16,17,18,19,24,25,26,26a-hexadecahydro-5,19-dihydroxy-14,16-dimethoxy-4,10,12,18-tetramethyl-15,19-epoxy-3H-pyrido[2,1-c][1,4]oxaazacyclotricosine-1,7,20,21(4H,23H)-tetrone

Additional Names: 33-*epi*-chloro-33-desoxyascomycin

Manufacturers' Codes: SDZ-ASM-981

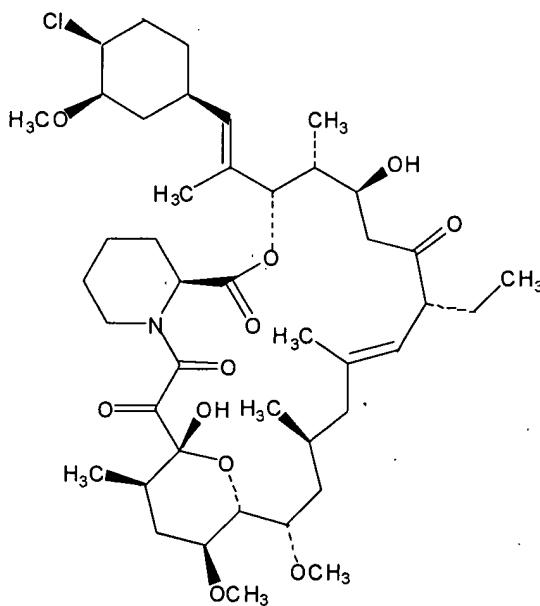
Trademarks: Elidel (Novartis)

Molecular Formula: C₄₃H₆₈ClNO₁₁

Molecular Weight: 810.45

Percent Composition: C 63.73%, H 8.46%, Cl 4.37%, N 1.73%, O 21.72%

Literature References: Macrolactam ascomycin derivative; inhibits production of pro-inflammatory cytokines by T cells and mast cells. Prepn: K. Baumann, G. Emmer, EP 427680 (1991 to Sandoz); *eidem*, US 5912238 (1999 to Novartis). *In vitro* pharmacology: M. Gassberger *et al.*, *Br. J. Dermatol.* **141**, 264 (1999). Clinical evaluation in psoriasis: U. Mrowietz *et al.*, *ibid.* **139**, 992 (1998); in contact dermatitis: C. Queille-Roussel *et al.*, *Contact Dermatitis* **42**, 349 (2000).



Therapeutic Category: Immunosuppressant.

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	347	(540/456).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/07/21 17:25
L2	10	L1 AND ("extraction column" "countercurrent" "counter current")	US-PGPUB; USPAT	OR	ON	2005/07/21 17:27
L3	234	L1 AND purification	US-PGPUB; USPAT	OR	ON	2005/07/21 17:26
L4	945	(210/634).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/07/21 17:26
L5	2	L4 and (rapam\$ OR ascom\$ OR FK506)	US-PGPUB; USPAT	OR	ON	2005/07/21 17:26
L6	222	1 and (rapam\$ OR ascom\$ OR FK506)	US-PGPUB; USPAT	OR	ON	2005/07/21 17:27
L7	144	3 and 6	US-PGPUB; USPAT	OR	ON	2005/07/21 17:27